

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of

Applicants : Carlo Waldried et al.
Serial No. : 10/627,894
Filed : July 24, 2003
Title : FLUORINE-FREE PLASMA CURING PROCESS FOR POROUS LOW-K MATERIALS
Docket : AXD 0001 I3/31126.3

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

CERTIFICATE OF MAILING
I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450 on October 28, 2003.


Attorney - Brian L. Smiler

Reg. No. 46,458

Sir:

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §§ 1.56, 1.97, AND 1.98

Applicants submit herewith patents, publications, and other information of which they are aware, which they believe may be material, as defined in 37 CFR §1.56(b), to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR §1.56(a). While the information referred to in this Information Disclosure Statement may be material pursuant to 37 CFR §1.56(b), the filing of this Information Disclosure Statement is not intended to, pursuant to 37 CFR §1.97(h), constitute an admission that any patent, publication, or other information referred to is, or is considered to be, material to the patentability of this invention. Further, pursuant to 37 CFR §1.97(g), the filing of this Statement should not be construed as a statement that a search has been made or that no other material information exists.

This Information Disclosure Statement is being filed within the period set forth in 37 CFR §1.97(b) because it is believed to be filed before the mailing date of a first office action on the merits.

Serial No. 10/627,894
Docket No. AXD 0001 I3/31126.3

The Office has waived the requirement pursuant to 37 CFR 1.98 (a)(2)(i) for submitting a copy of each cited U.S. patent and each U.S. patent application publication for all U.S. national patent applications filed after June 30, 2003 and for all international applications that have entered the national stage under 35 USC § 371 after June 30, 2003. Therefore, no copies of each cited U.S. patent and each cited U.S. patent application publication are enclosed, but the cited U.S. patents and the cited U.S. patent application publications are listed on PTO/SB/08A and PTO/SB/08B.

Respectfully submitted,
DINSMORE & SHOHL LLP

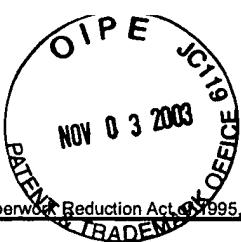
By



Brian L. Smiler
Registration No. 46,458

One Dayton Centre
One South Main Street, Suite 500
Dayton, Ohio 45402-2023
Telephone: (937) 223-2050
Facsimile: (937) 223-0724

BLS/amm
Encls.



PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

1

of

3

Complete if Known

Application Number	10/627,894
Filing Date	July 24, 2003
First Named Inventor	Carlo Waldfried
Art Unit	
Examiner Name	

Attorney Docket Number AXD 0001 I3/31126.3

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (<i>if known</i>)			
		US- 3,615,272	10/26/1971	Collins et al.	
		US- 4,636,440	01/13/1987	Sivananda S. Jada	
		US- 4,749,631	06/07/1988	Haluska et al.	
		US- 4,756,977	07/12/1988	Haluska et al.	
		US- 4,808,653	02/28/1989	Haluska et al.	
		US- 4,822,697	04/18/1989	Haluska et al.	
		US- 4,842,888	06/27/1989	Haluska et al.	
		US- 4,847,162	07/11/1989	Haluska et al.	
		US- 4,999,397	03/12/1991	Weiss et al.	
		US- 5,008,320	04/16/1991	Haluska et al.	
		US- 5,010,159	04/23/1991	Bank et al.	
		US- 5,063,267	11/05/1991	Hanneman et al.	
		US- 5,116,637	05/26/1992	Baney et al.	
		US- 5,210,160	05/11/1993	Saive et al.	
		US- 5,234,556	08/10/1993	Oishi et al.	
		US- 5,262,201	11/16/1993	Chandra et al.	
		US- 5,290,394	03/01/1994	Tokuhito Sasaki	
		US- 5,416,190	05/16/1995	Mine et al.	
		US- 5,523,163	06/04/1996	Balance et al.	

FOREIGN PATENT DOCUMENTS

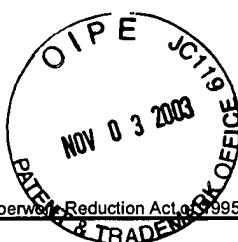
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (<i>if known</i>)				
		JP 60-086017A	05/15/1985	Fujitsu Ltd.		
		EP 1189267	03/20/2002	Ulvac, Inc.		
		EP 1037275	09/20/2000	Canon Sales Co. Inc.		
		WO 0170628	09/27/2001	Dow Corning/Axcelis		

Examiner Signature	Date Considered
--------------------	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

2

of

3

Complete if Known

Application Number	10/627,894
Filing Date	July 24, 2003
First Named Inventor	Carlo Waldfried
Art Unit	
Examiner Name	

Attorney Docket Number AXD 0001 I3/31126.3

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US- 5,547,703	08/20/1996	Camilletti et al.	
		US- 5,618,878	04/08/1997	Syktich et al.	
		US- 5,853,808	12/29/1998	Arkles et al.	
		US- 5,935,646	08/10/1999	Raman et al.	
		US- 5,961,851	10/05/1999	Kamarehi et al.	
		US- 6,054,206	04/25/2000	Mountsier	
		US- 6,080,526	06/27/2000	Yang et al.	
		US- 6,143,360	11/07/2000	Zhong	
		US- 6,149,987	11/21/2000	Perng et al.	
		US- 6,184,260 B1	02/06/2001	Zhong	
		US- 6,231,989 B1	05/15/2001	Chung et al.	
		US- 6,232,424 B1	05/15/2001	Zhong et al.	
		US- 6,313,045 B1	11/06/2001	Zhong et al.	
		US- 6,359,096 B1	03/19/2002	Zhong et al.	
		US- 6,284,050 B1	09/04/2001	Shi et al.	
		US- 2002/0136910 A1	09/26/2002	Harker	
		US- 5,879,744	03/09/1999	Cao et al.	
		US-			
		US-			

FOREIGN PATENT DOCUMENTS

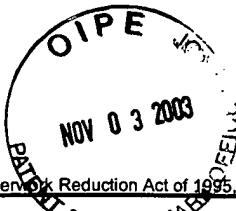
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				

Examiner
SignatureDate
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/08B (08-03)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Complete if Known

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

3

of

3

Application Number	10/627,894
Filing Date	July 24, 2003
First Named Inventor	Carlo Waldfried
Art Unit	
Examiner Name	

Attorney Docket Number AXD 0001 I3/31126.3

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		GLASSER ET AL., EFFECT OF THE H2O/TEOS RATIO UPON THE PREPARATION AND NITRIDATION OF SILICA SOL/GEL FILMS, Journal of Non-Crystalline Solids, 1984, 13pgs., Vol. 63, Elsevier Science Publishers B.V., North-Holland, Amsterdam	
		HAN Q. ET AL., "Ultra Low-K Porous Silicon Dioxide Films from A Plasma Process", Proceedings of the IEEE, International Interconnect Technology Conference, 4 June 2001, pgs. 171-173	
		KIM J-J ET AL., "The Effects of Plasma Treatment on SiO ₂ Aerogel Film Using Various Reactive (O ₂ , H ₂ , N ₂) and Non-Reactive (He, Ar) Gases", Thin Solid Films, Elsevier-Sequoia S.A. Lausanne, CH, Vol. 377-378, 1 December 2000, pgs. 525-529	
		Abstract for JP 59-178749A to Takeda (Fujitsu), 10/11/1984	
		Abstract for JP 63-107122A to Fukuyama et al. (Fujitsu) 05/12/1988	

Examiner Signature	Date Considered
--------------------	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.